

CLAIMS

1. A method, comprising:

automatically providing a plurality of color values as input to an image processing device, wherein said image processing device is under a control of a particular dimensional order;

dynamically determining which color value among said plurality of color values has attained a gamut limit;

thereafter automatically reducing said particular dimensional order, thereby providing improved control for colors that are located external to said gamut.

2. The method of claim 1 further comprising transforming said particular dimensional order, in response to dynamically determining which color value among said plurality of color values has attained gamut limit.

3. The method of claim 1 wherein said particular dimensional order comprises a three-dimensional order.

4. The method of claim 3 wherein said reducing said particular dimensional order, further comprises:

reducing said three-dimensional order to a two-dimensional order.

5. The method of claim 3 wherein said reducing said particular dimensional order, further comprises:

reducing said three-dimensional order to a one-dimensional order.

6. The method of claim 1 wherein said dynamically determining which color value among said plurality of color values has attained a gamut limit, further comprises:

dynamically determining utilizing a color sensor which color among a plurality of three colors has attained said gamut limit, wherein said plurality of three colors comprises cyan, magenta, and yellow.

7. The method of claim 6 wherein said color sensor comprises an offline sensor.

8. The method of claim 6 wherein said color sensor comprises an inline sensor.

9. A method, comprising:

automatically providing a plurality of color values as input to an image processing device, wherein said image processing device is under a control of a three-dimensional order;

dynamically determining utilizing a color sensor, which color among a plurality of three colors has attained said gamut limit, wherein said plurality of three colors comprises cyan, magenta, and yellow;

transforming said three-dimensional order, in response to dynamically determining which color value among said plurality of three color values has attained said gamut limit; and

automatically reducing said three-dimensional order, thereby providing improved control for colors that are located external to said gamut.

10. A system, comprising:

a plurality of color values automatically provided as input to an image processing device, wherein said image processing device is under a control of a particular dimensional order;

a color sensor for dynamically determining which color value among said plurality of color values has attained a gamut limit; and

a transformation module for automatically reducing said particular dimensional order based on determining which color value among said plurality of color values has attained said gamut limit, thereby providing improved control for colors that are located external to said gamut.

11. The system of claim 10 wherein said transformation module further comprises a transformation module for transforming said particular dimensional order, in response to dynamically determining which color value among said plurality of color values has attained gamut limit.

12. The system of claim 10 wherein said particular dimensional order comprises a three-dimensional order.

13. The system of claim 12 wherein said transformation module further comprises a transformation module for reducing said three-dimensional order to a two-dimensional order.

14. The system of claim 13 wherein said transformation module reduces said three-dimensional order to said two-dimensional order in response to determining which colors among said plurality of colors have attained said gamut limit.

15. The system of claim 12 wherein said transformation module further comprises a transformation module for reducing said three-dimensional order to a one-dimensional order.

14. The system of claim 15 wherein said transformation module reduces said three-dimensional order to said one-dimensional order in response to determining which color among said plurality of colors has attained said gamut limit

15. The system of claim 10 wherein said color sensor comprises an offline sensor.

16. The system of claim 10 wherein said color sensor comprises an inline sensor.

17. The system of claim 10 further comprising a color rendering device associated with said transformation module and wherein said transformation module is integrated with said image processing device.

18. The system of claim 17 further comprising an iterative controller whose iterative output is input to said color rendering device, such that said iterative output of said iterative controller reflects a plurality of compensated color values requiring correction for rendering variations thereof.

19. The system of claim 17 wherein said color rendering device comprises a

printer.

20. The system of claim 17 wherein said color rendering device comprises a photocopy machine.